

FIG. 1

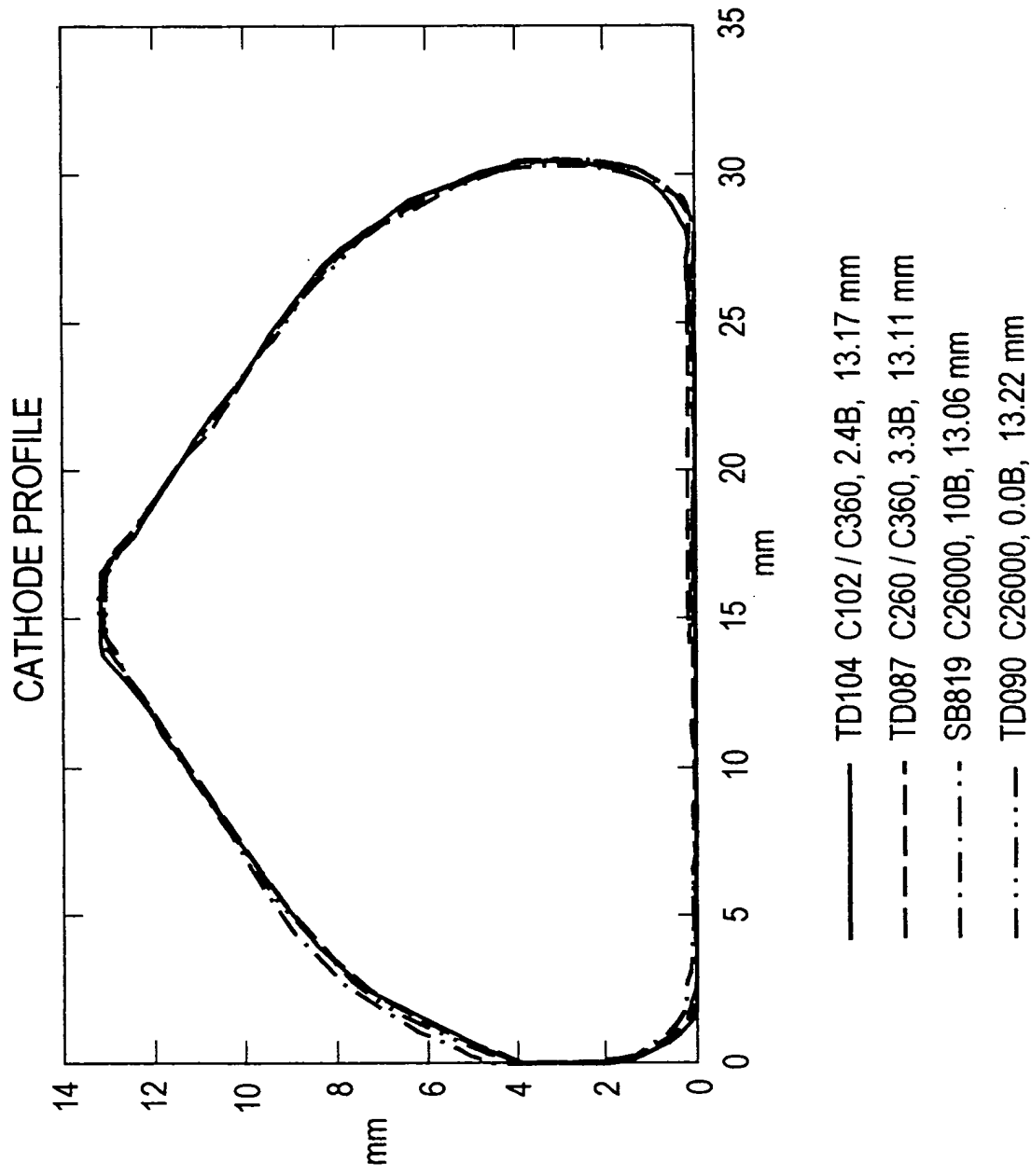
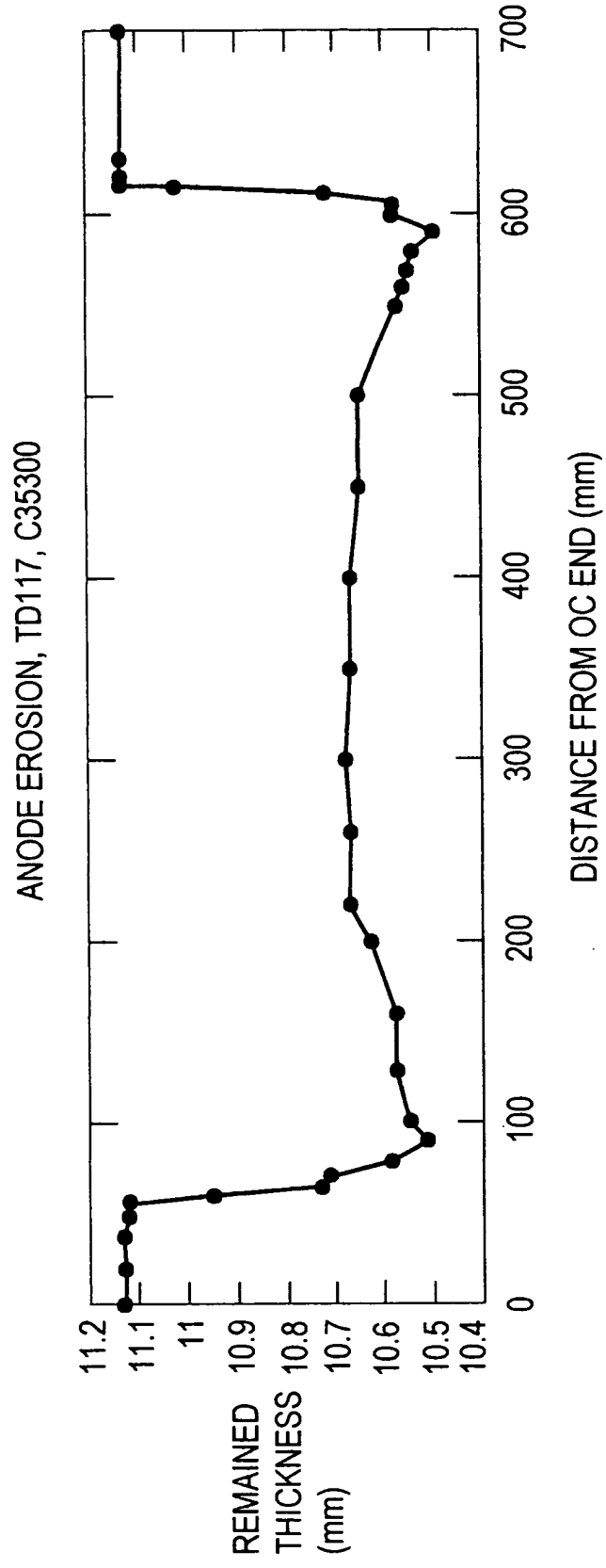


FIG. 2. Cathode Profile Changes



Typical Axial Anode Erosion Profile, 3 Bp in 4 KHz ArF

FIG. 3

FIG. 6. LOCAL C26000 ANODE AND CATHODE SEGMENT CORROSION RATES (mm/Bp)  
 TD133 SEGMENTED CATHODE TEST, 2.3 Bp, 2.5 KHz, ArF, 1100V

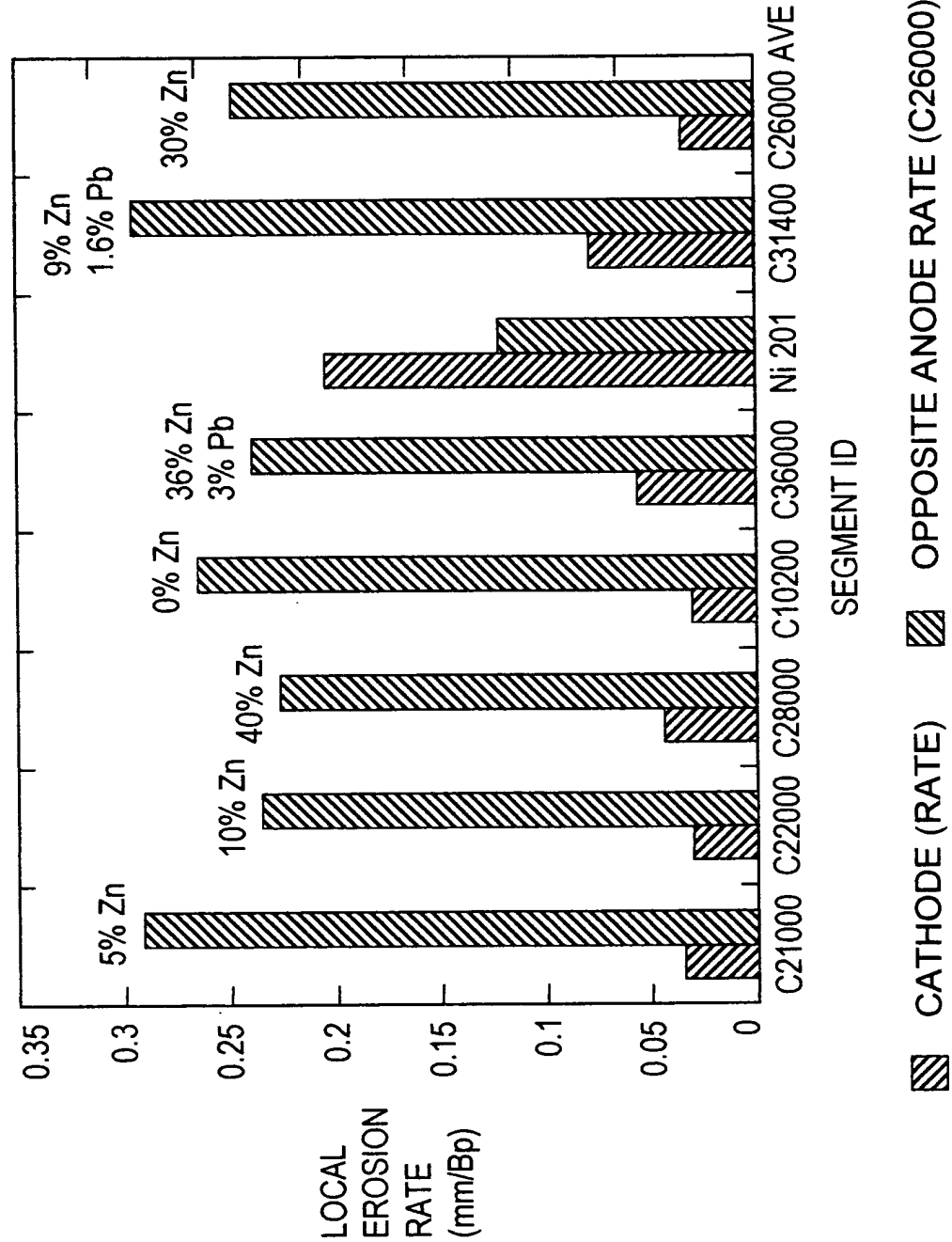


FIG. 4

Fig. 7. Cathode Discharge Width vs Material Type  
(TD133, 2.5 KHz ArF, 1100 Volts, 2.3 Bp)

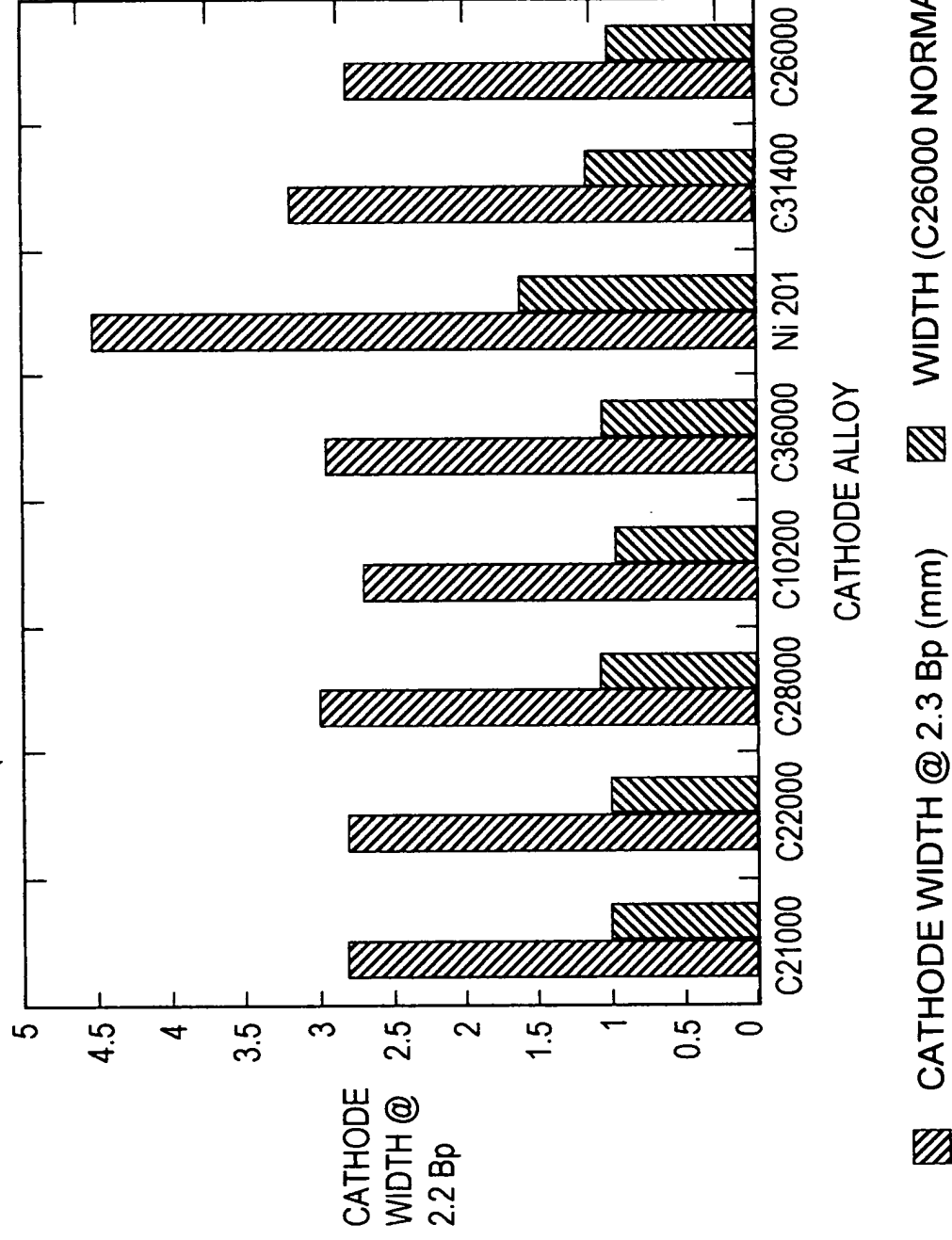


FIG. 5

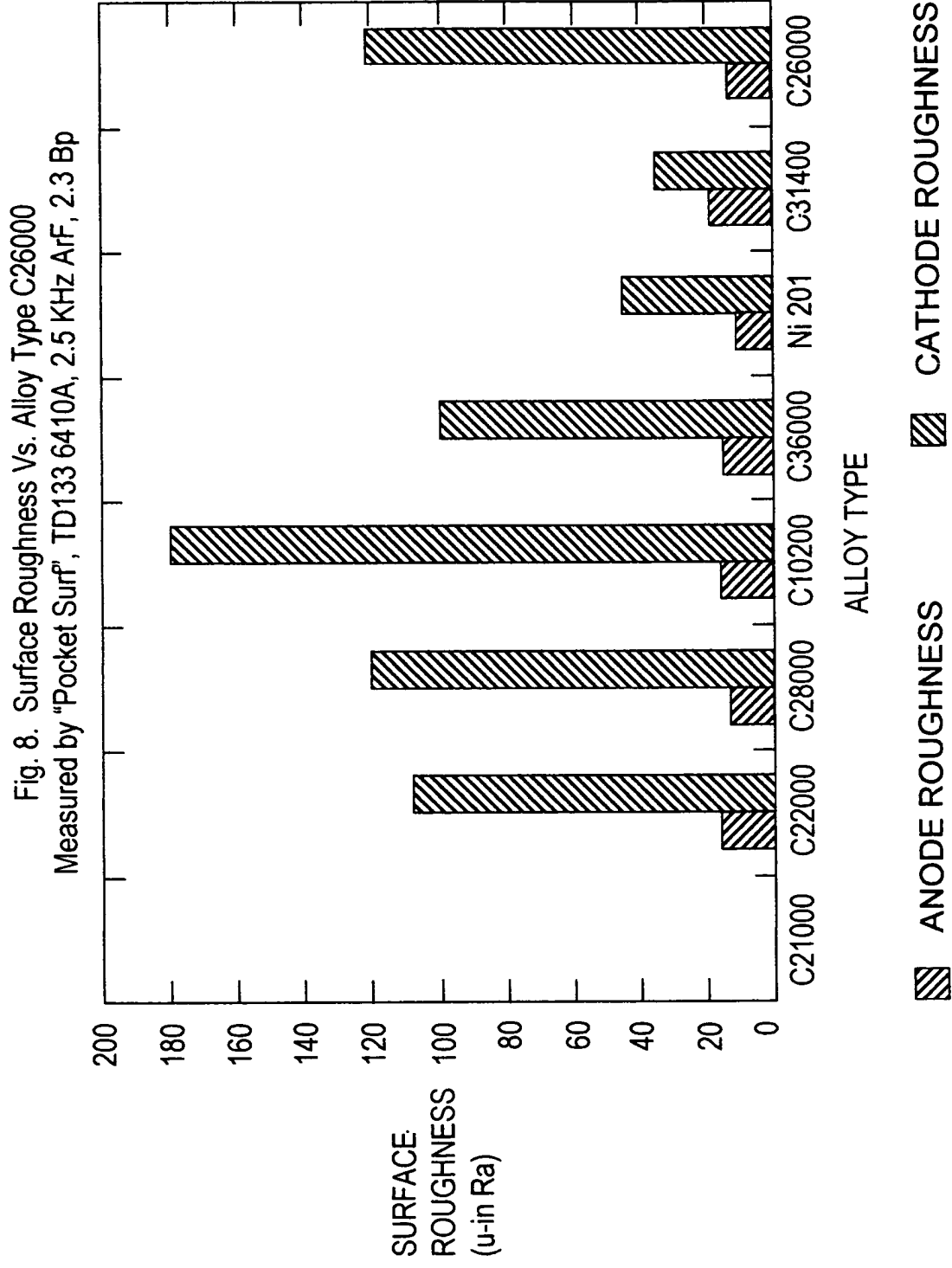


FIG. 6

Fig. 10. Average Cathode Erosion Rates (2KHz, >2Bp)

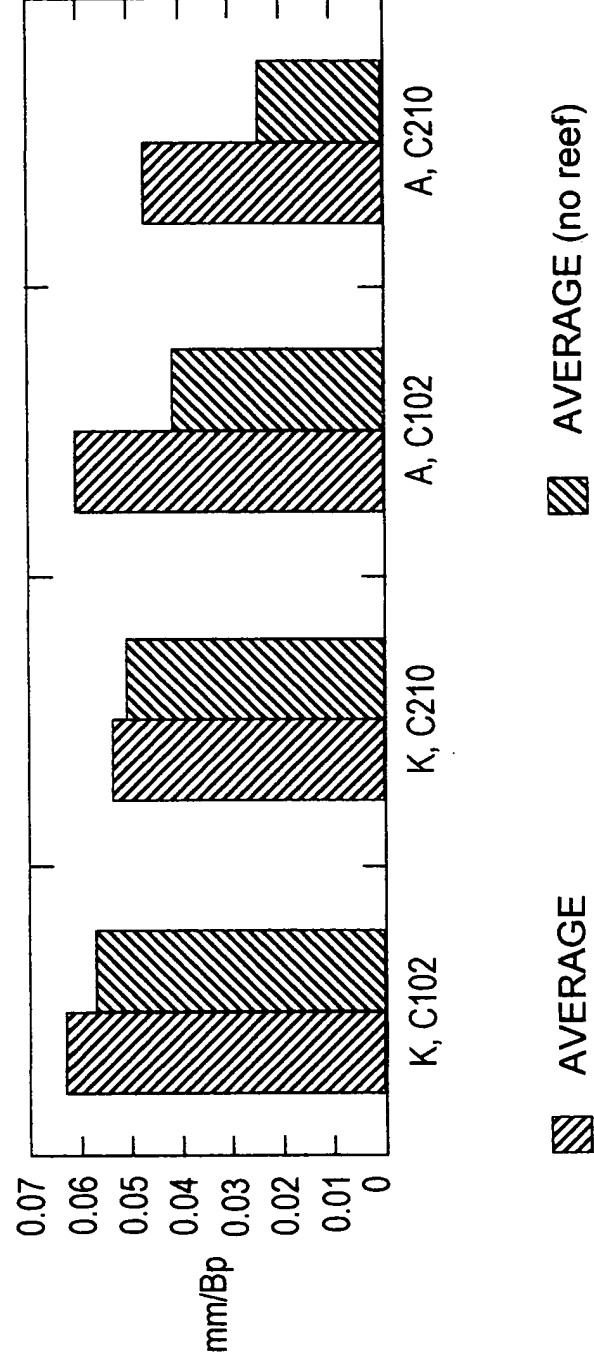


FIG. 7

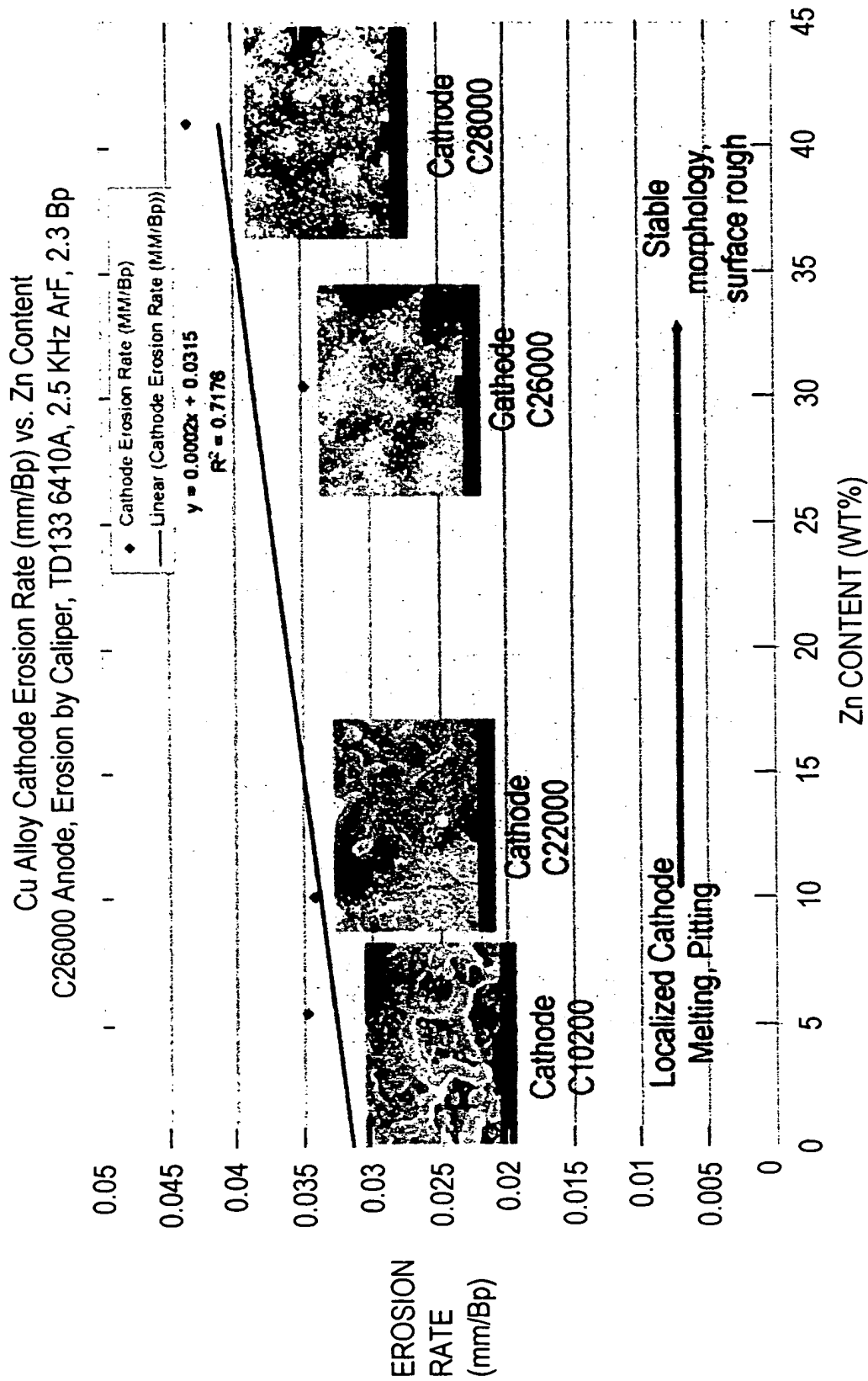


FIG. 8



Fig. 8. Surface Roughness Vs. Alloy Type C26000  
 Measured by "Pocket Surf", TD133 6410A, 2.5 KHz ArF, 2.3 Bp

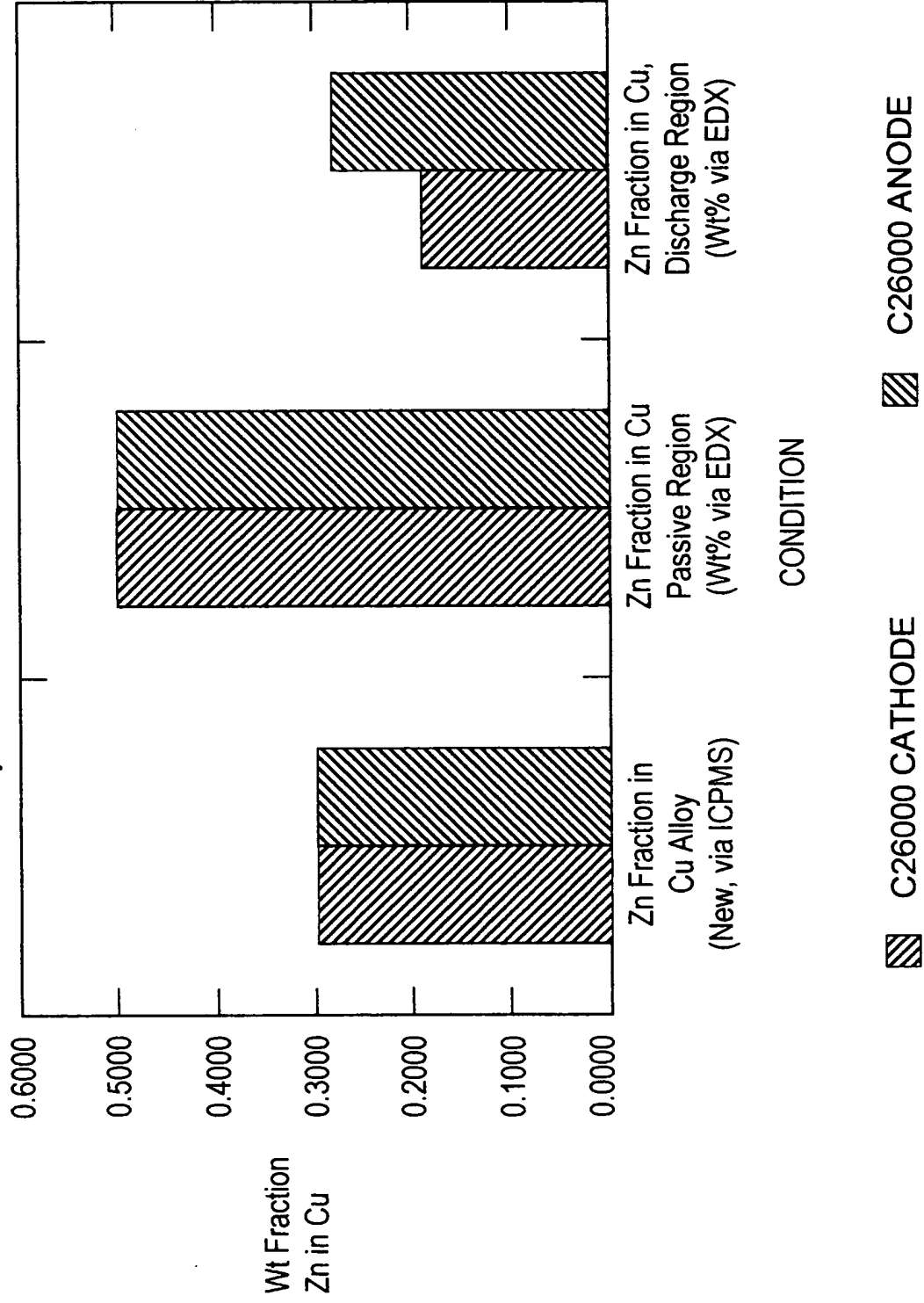


FIG. 9

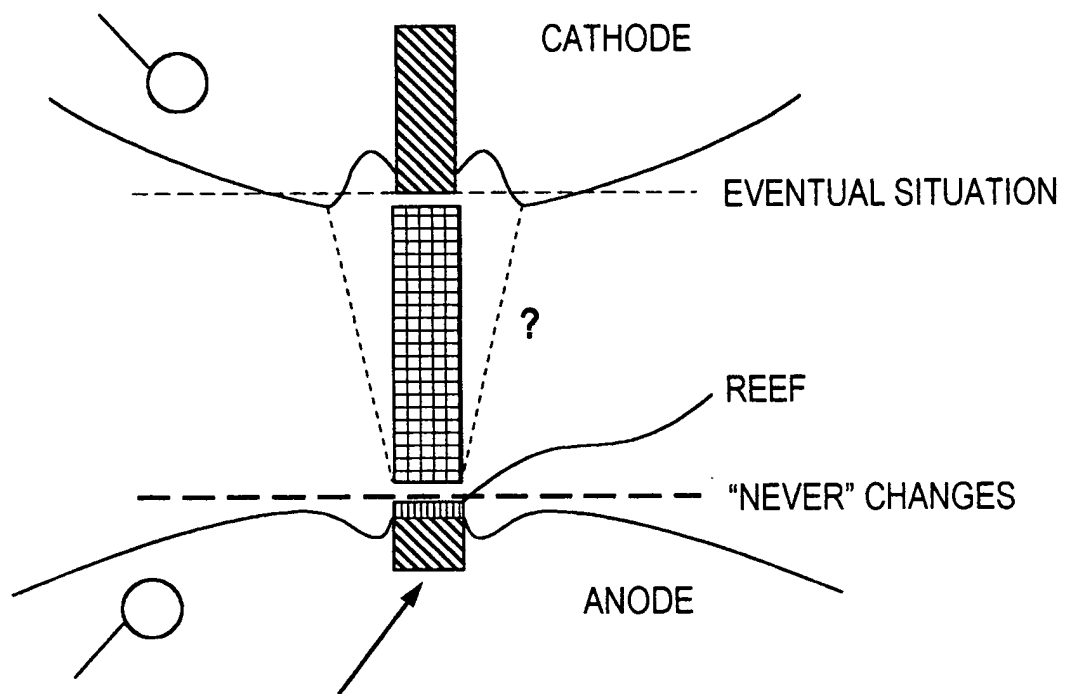


FIG. 10

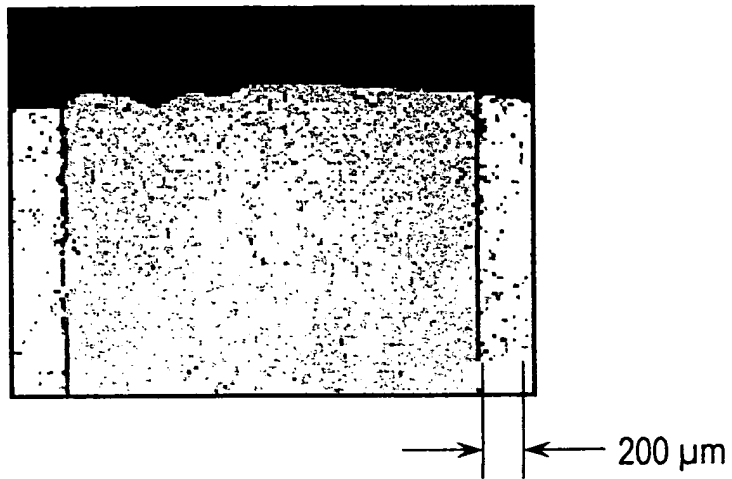


FIG. 11

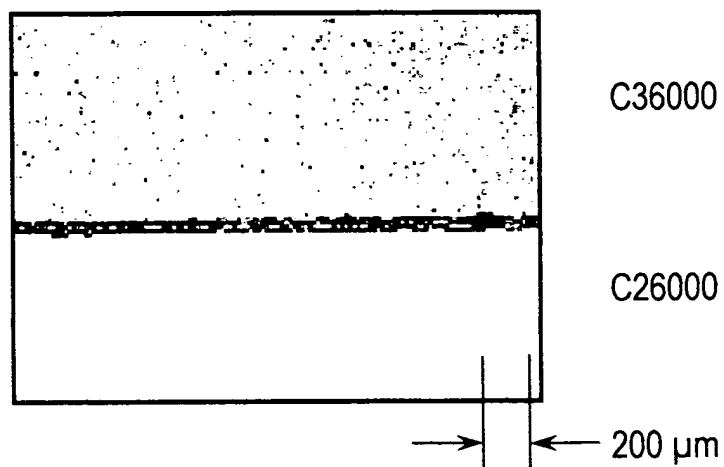


FIG. 12

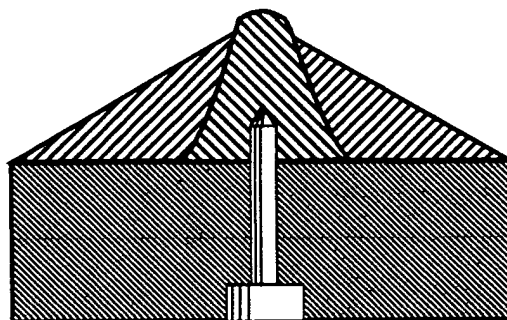


FIG. 13

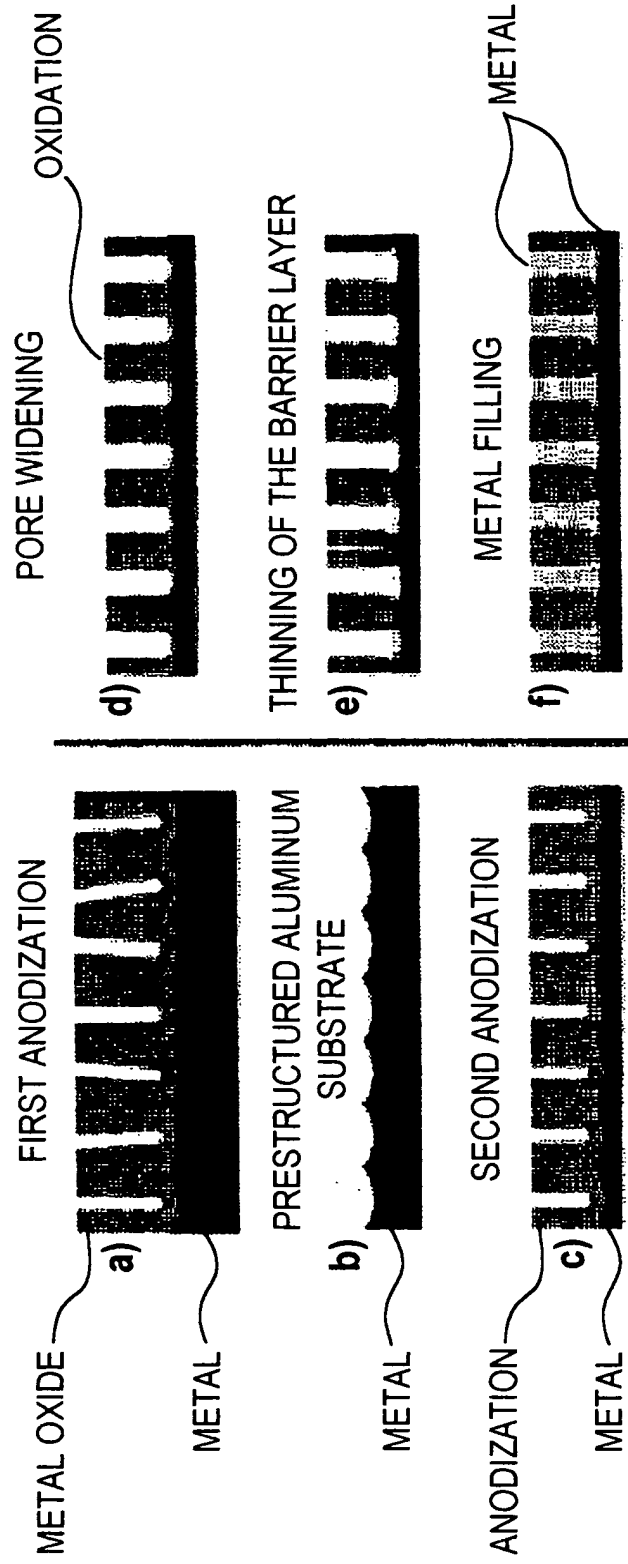


FIG. 14

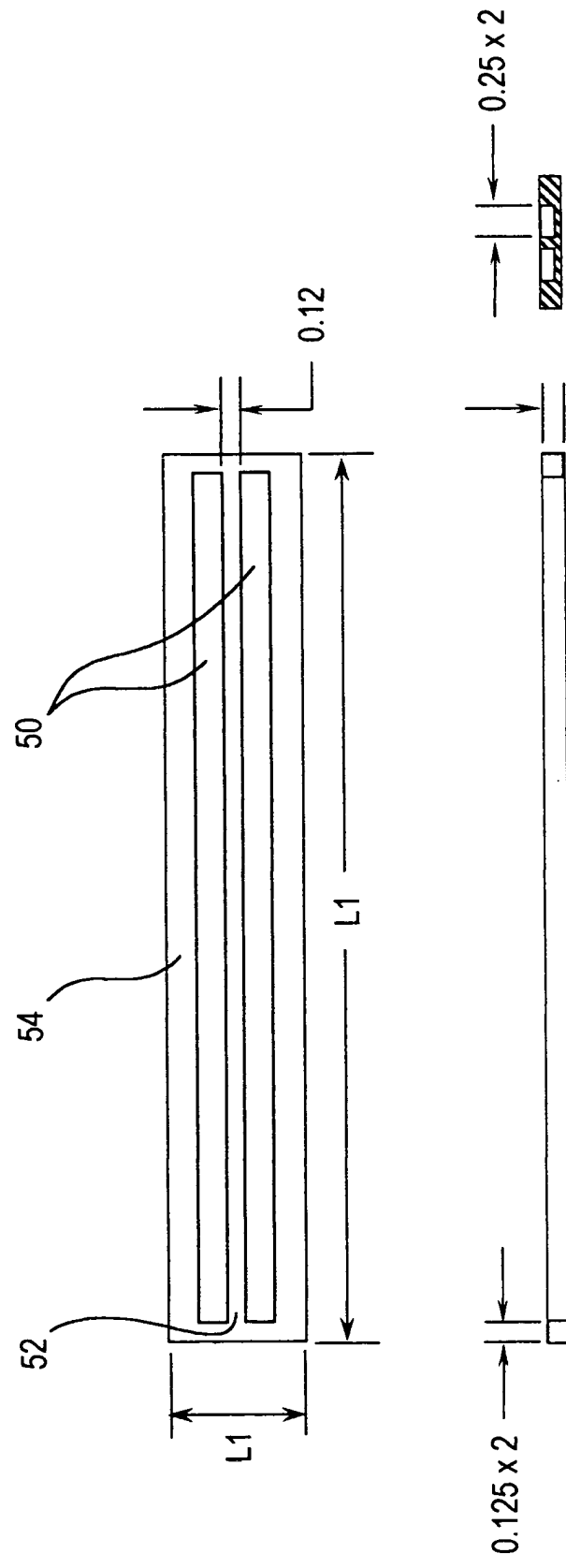


FIG. 15

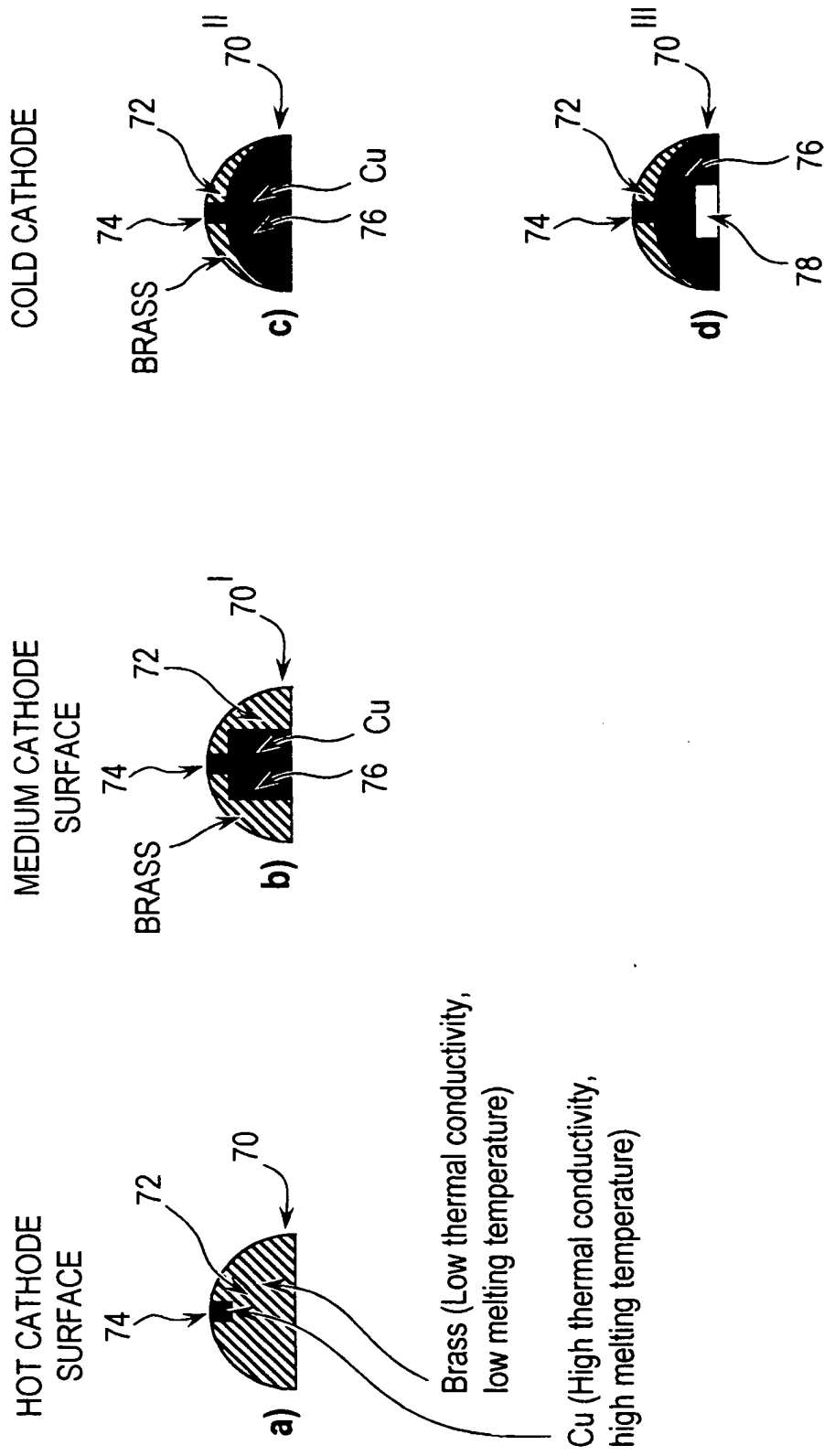


FIGURE 1. Cathode or Anode Surface Temperature Control Using Diffusion Bonding Technology.

FIG. 16

# AIRSTREAM CONCEPT

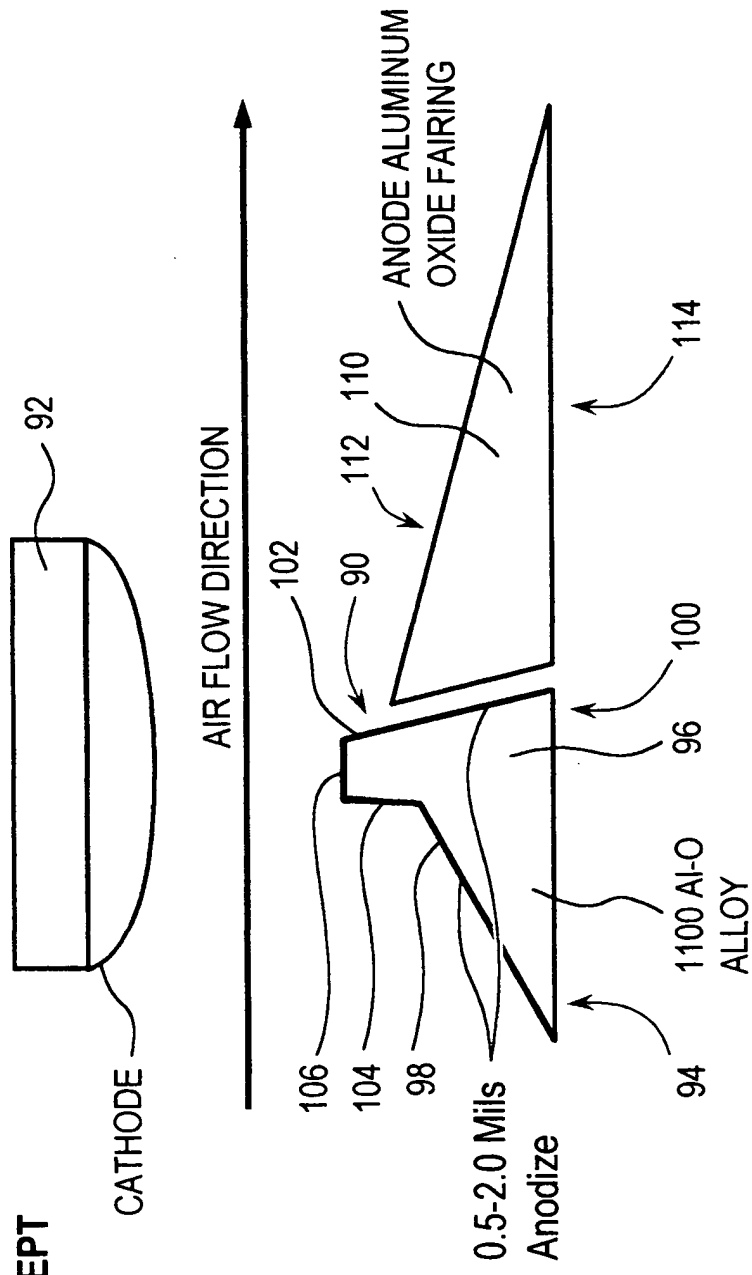
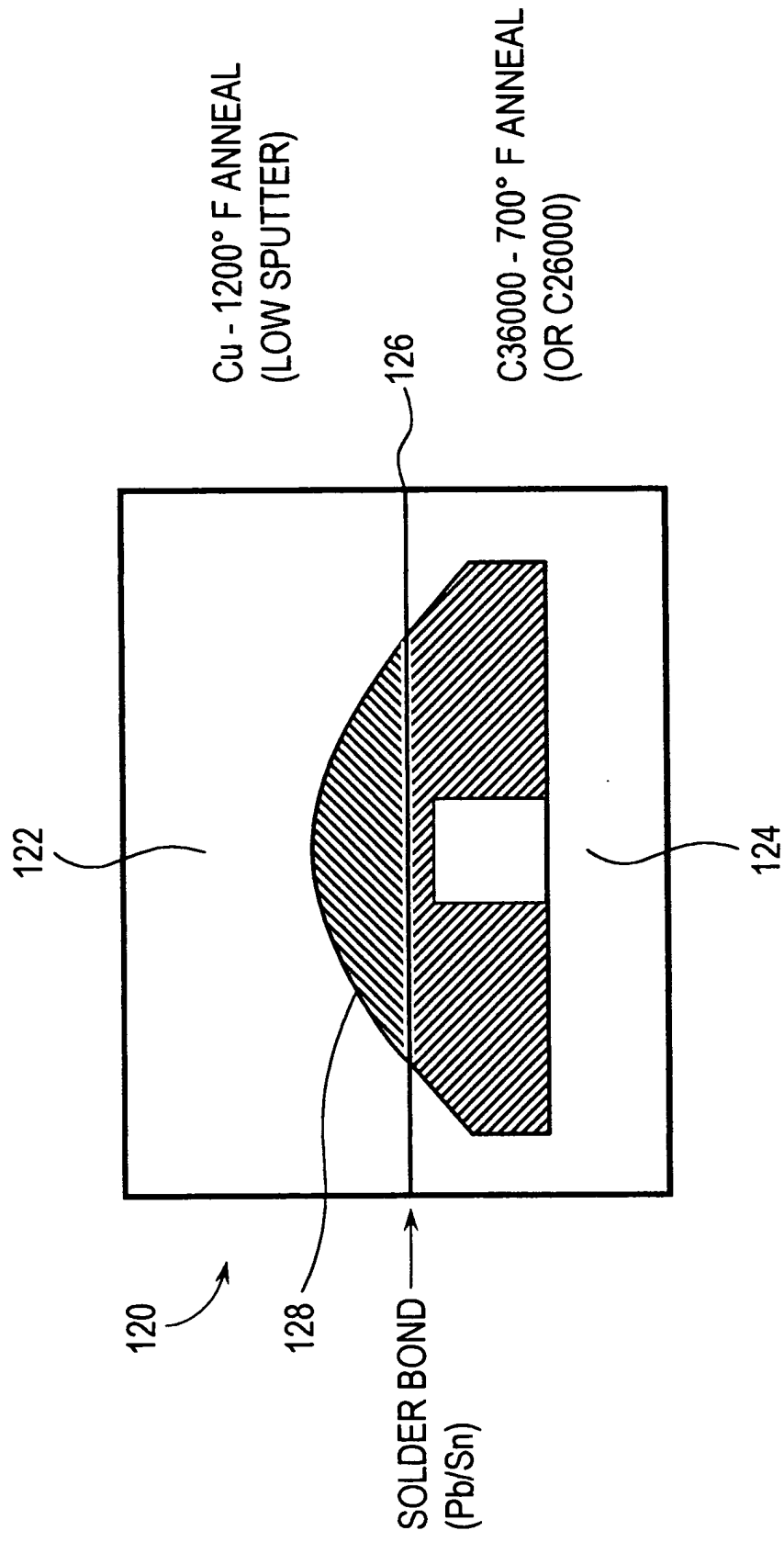


FIG. 17

Spatter rate of annealed Cu about  $\frac{1}{2}$  that of brass.



Good machining and mechanical properties for mounting and gas sealing.  
(Low erosion rate cathode not relying on differential erosion.)

FIG. 18



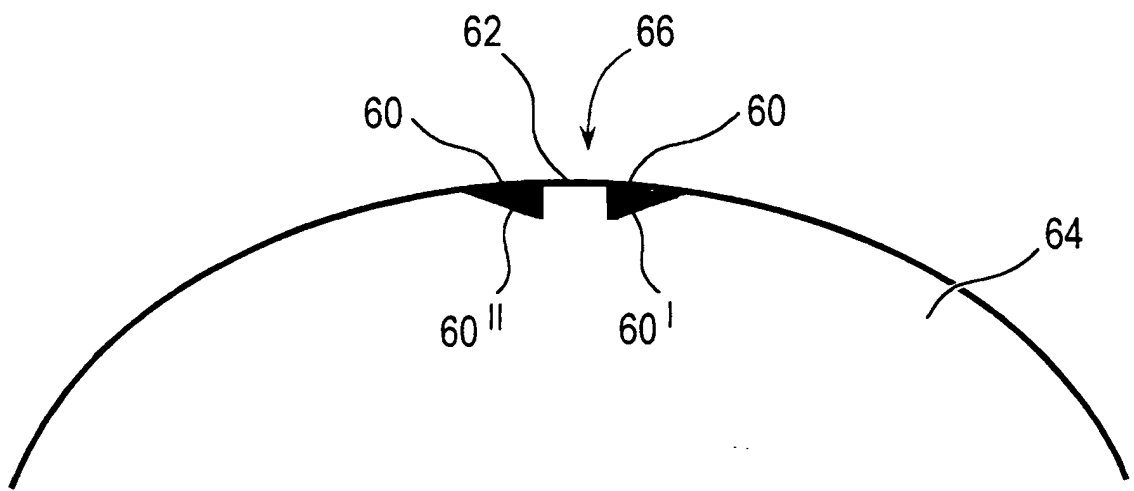


FIG. 19

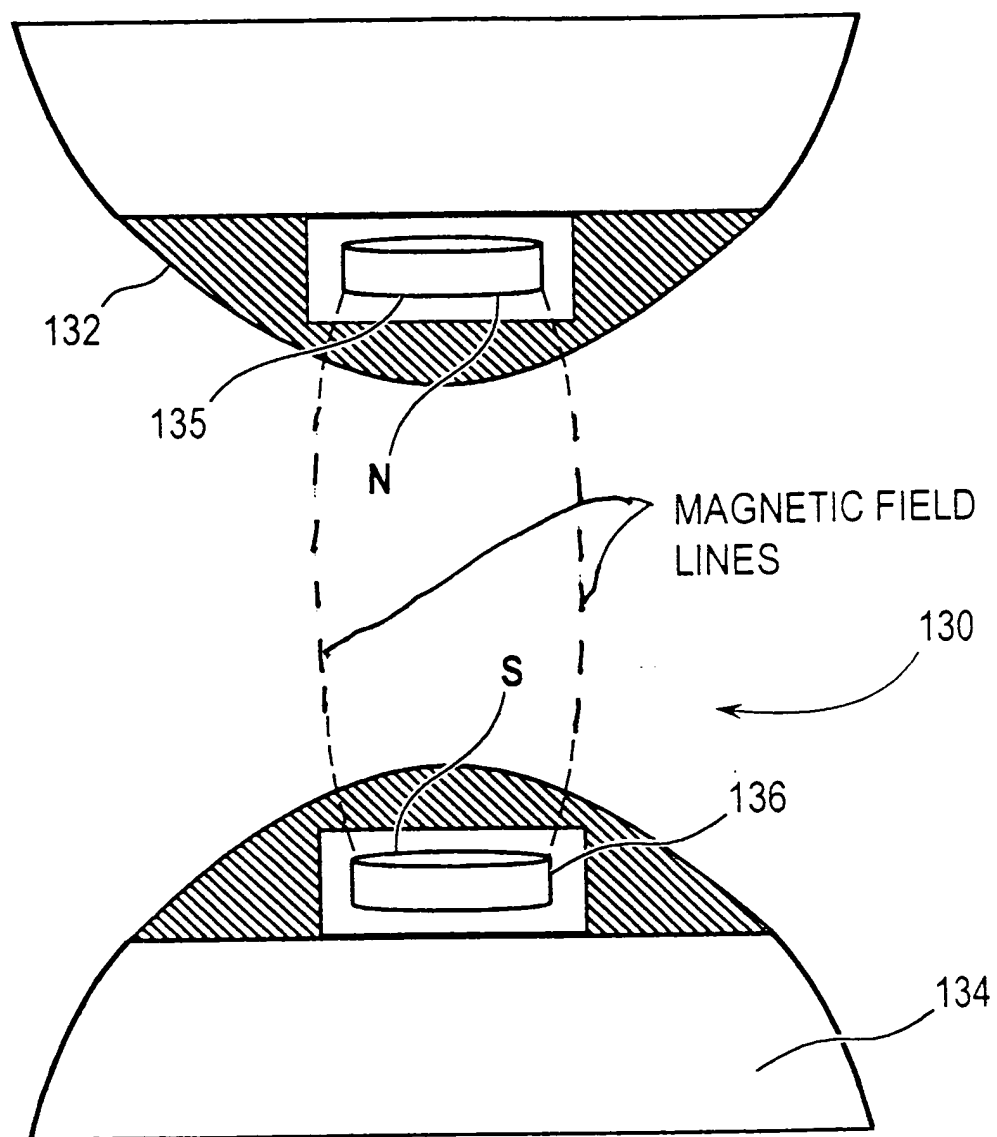


FIG. 20a

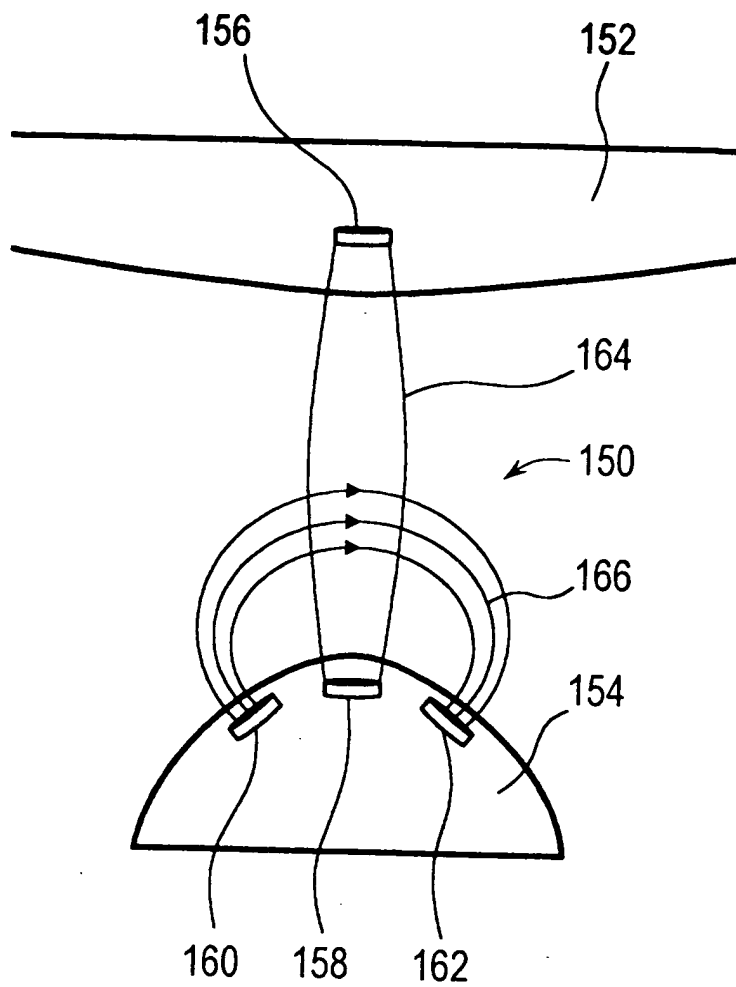


FIG. 20b

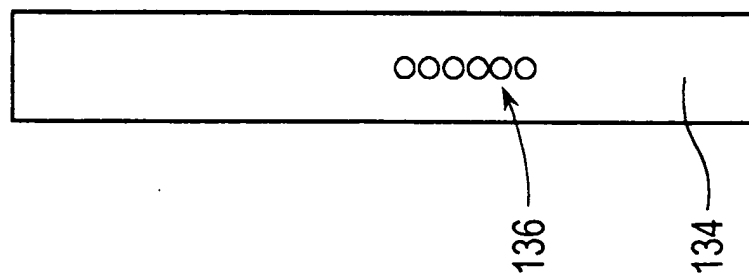


FIG. 20c

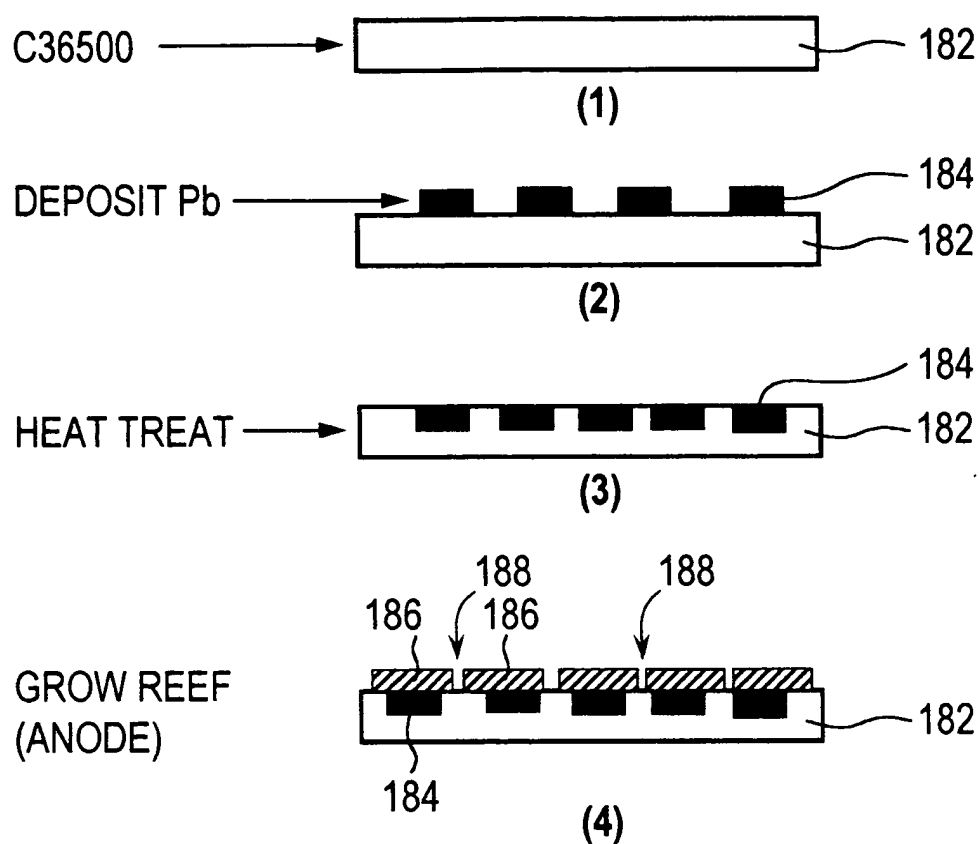


FIG. 21a

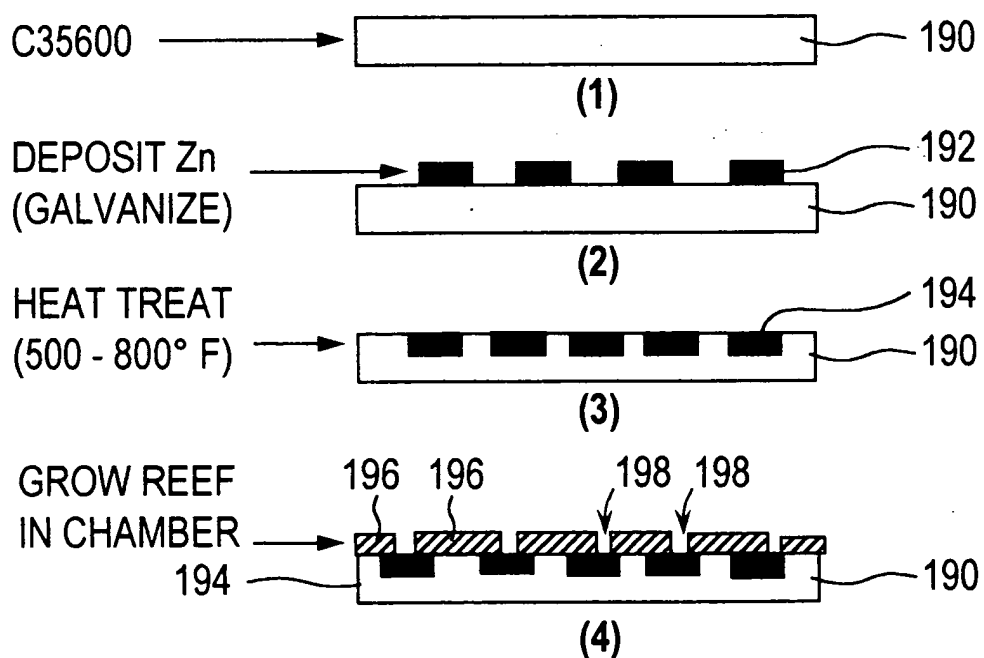
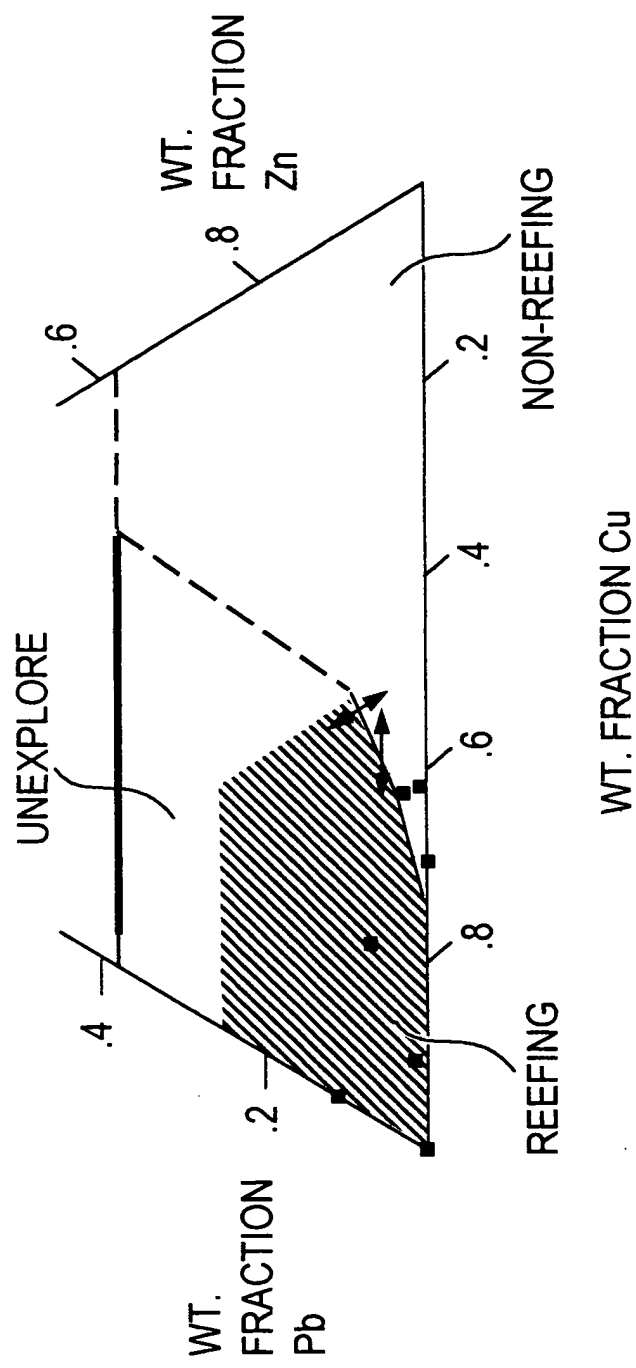


FIG. 21b



ALLOY  
DESIGNATION

C10200  
C26000  
C31400  
C35300  
C36000  
C36500  
C38500  
C84800  
C93700

FIG. 22

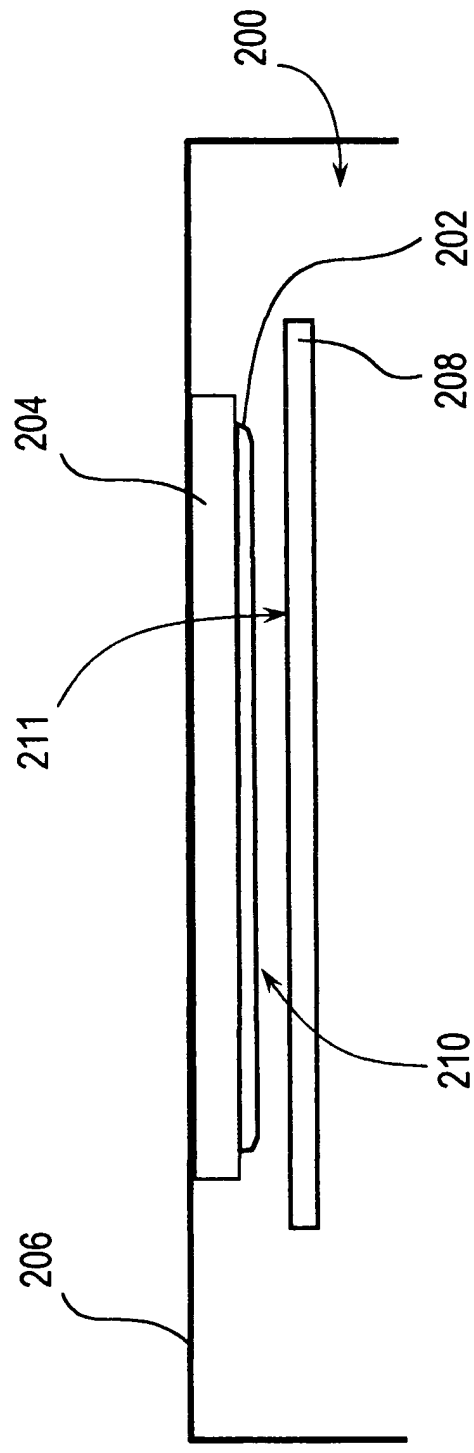


FIG. 23a

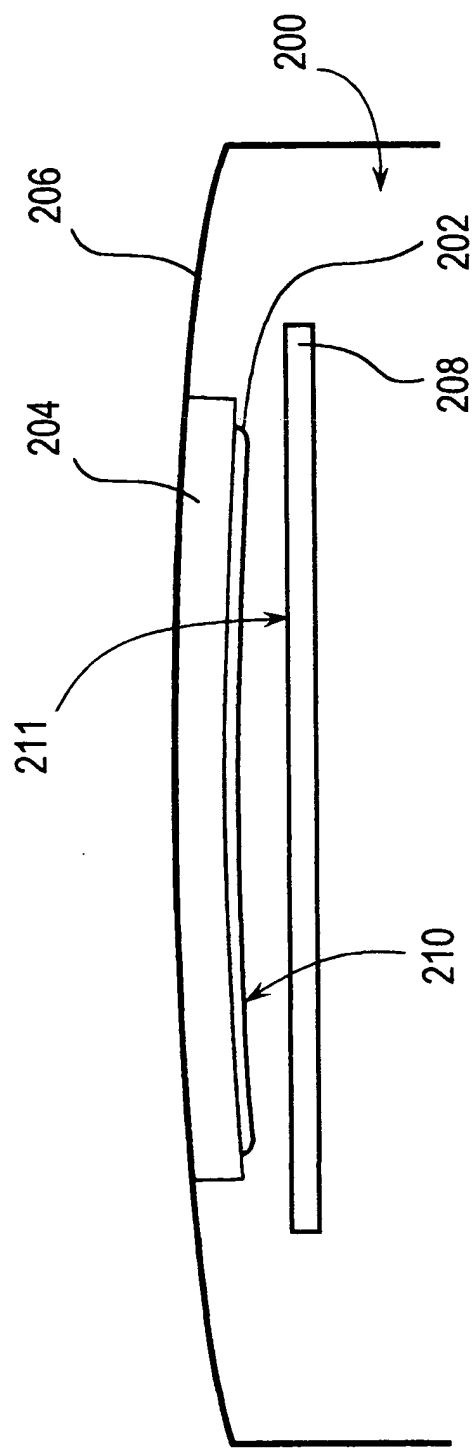


FIG. 23b

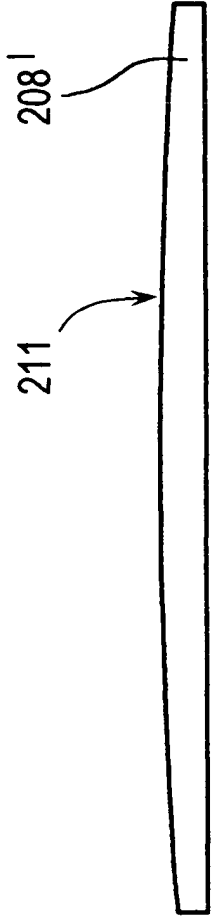


FIG. 23c



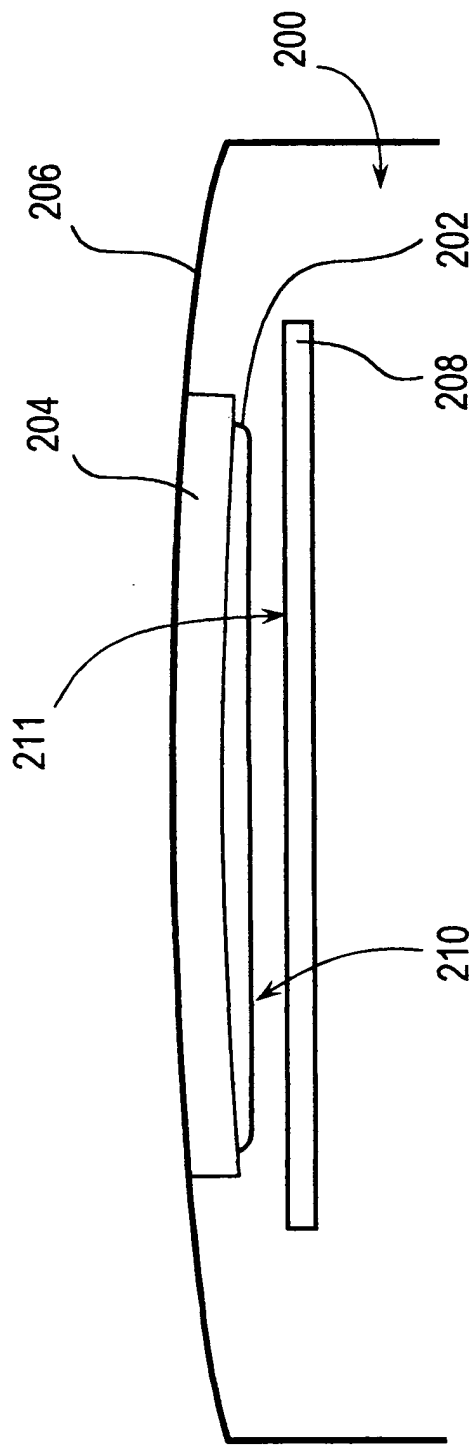
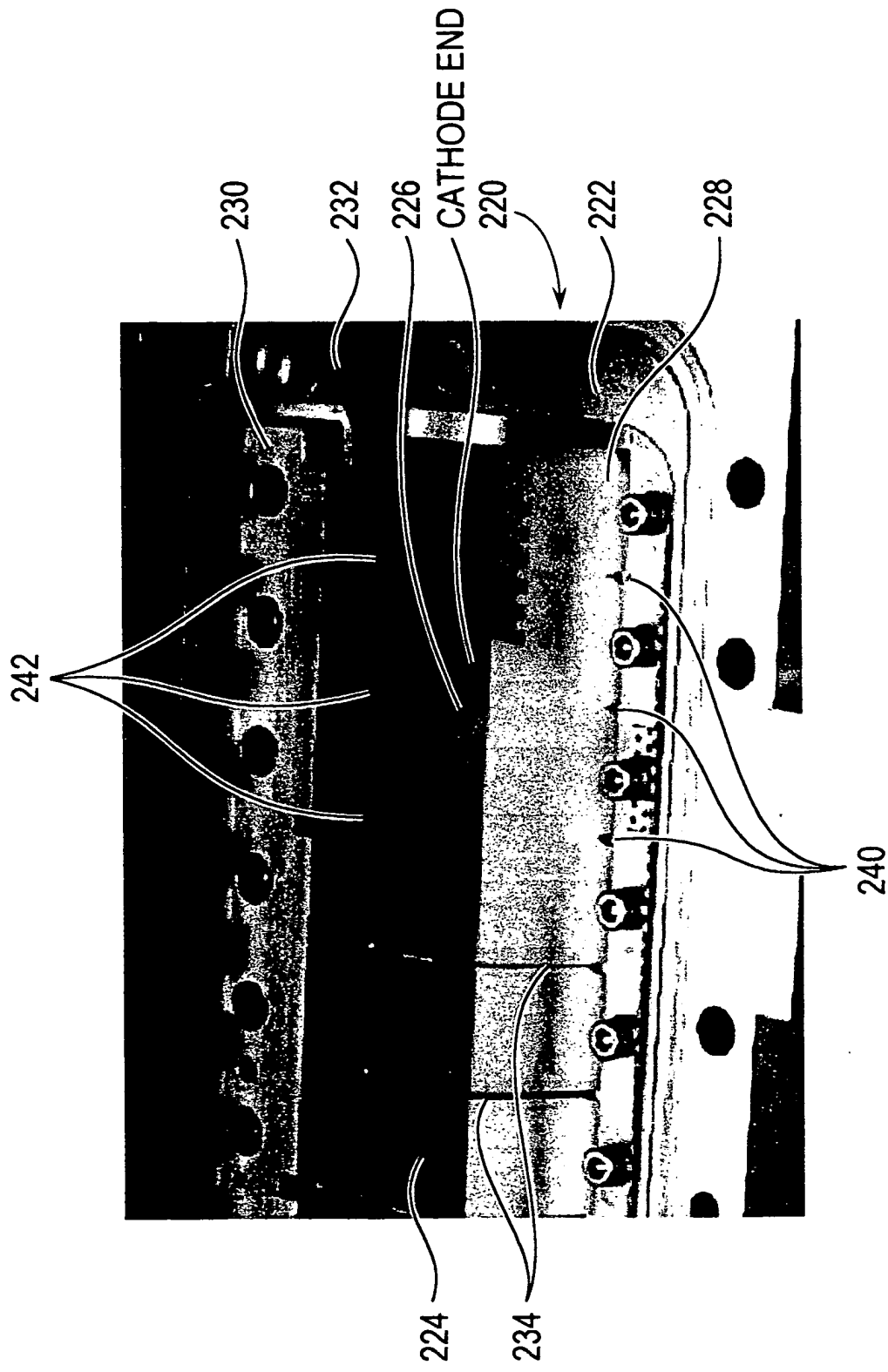


FIG. 23d



Current return tangs removed to increase inductance at end of discharge region.

FIG. 24

# ANODE SLOPE



(KrF, dual brass, ~ 7Bshots, C36 center, C26 body)

(Taken in non-reefed region)

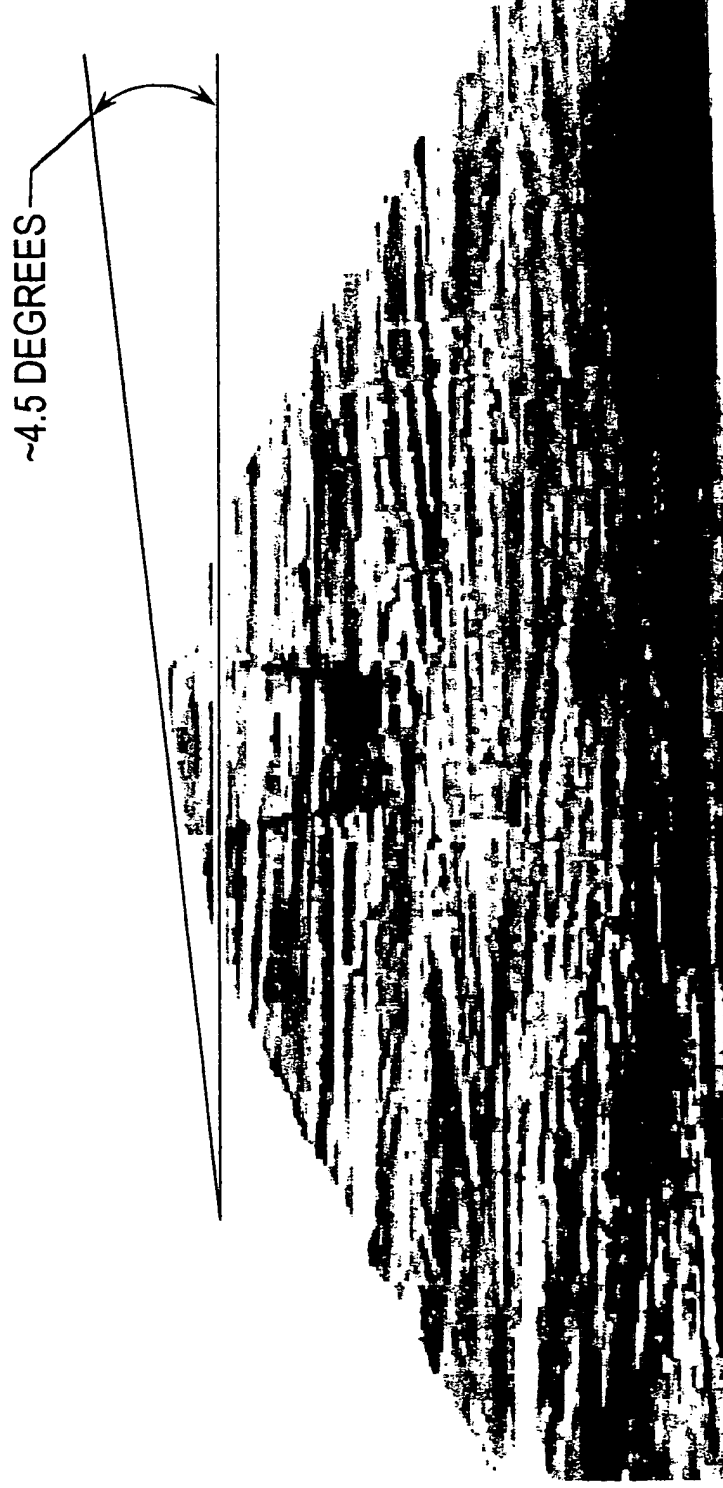


FIG. 25a

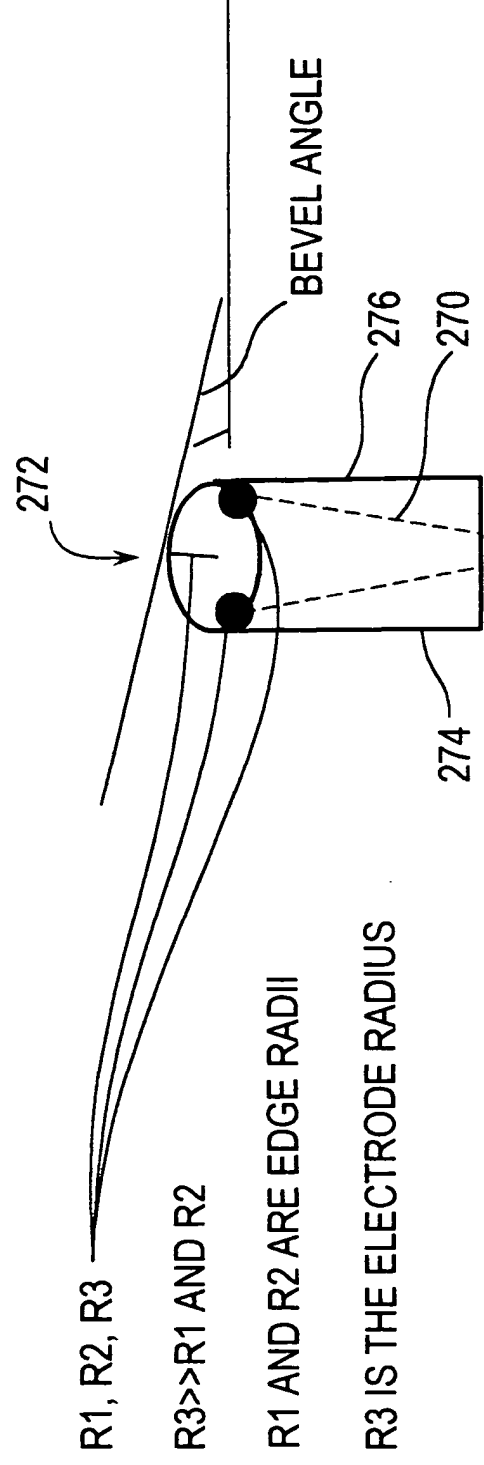


FIG. 25b